CANADIAN JOURNAL OF SOIL SCIENCE

Volume 50 1970

AUTHOR INDEX

ANDERSON, C. H. See Keys, C. H., 347.

ANDERSON, G. See Halstead, R. L., 111.

AYLESWORTH, J. W. See Bolton, E. F., 260 and 275.

BIEDERBECK, V. O. See Campbell, C. A., 257.

BISAL, FREDERICK and FERGUSON, W. S. Effect of nonerodible aggregates and wheat stubble on initiation of soil drifting, 31.

BOLLEN, W. B. See Li, C. Y., 458.

BOLTON, E. F., AYLESWORTH, J. W. and FINDLAY, W. I. Residual effect of nitrogen application on soil pH and lime requirements of a Brookston clay, 260.

BOLTON, E. F., AYLESWORTH, J. W. and HORE, F. R. Nutrient losses through tile drains under three cropping systems and two fertility levels on a Brookston clay soil, 275.

BOWREN, K. E. See Keys, C. H., 347.

BRYDON, J. E. See McKeague, J. A., 47, and Singh, S. Shah, 219.

BRYDON, J. E. and DAY, J. H. Use of the Fieldes and Perrott sodium fluoride test to distinguish the B horizons of Podzols in the field, 35.

CAIRNS, R. R. Effect of long-term fallow on Solonetz soil and crop production, 449.

CAIRNS, R. R. Effect of Solonetz soil horizon mixing on alfalfa growth, 367.

CAMERON, D. R. and TOOGOOD, J. A. Computer mapping of Alberta soil test data, 1.

CAMPBELL, C. A., BIEDERBECK, V. O. and WARDER, F. G. Simulated early spring thaw conditions injurious to soil microflora, 257.

CAMPBELL, C. A., FERGUSON, W. S. and WARDER, F. G. Winter changes in soil nitrate and exchangeable ammonium, 151.

CHENG, B. T. and OUELLETTE, G. J. Effect of various nitrogen fertilizers on manganese and iron availability as measured by incubation and sand culture studies, 163.

CHO, C. M., STRONG, J. and RACZ, G. J. Convective transport of orthophosphate (P-31 and P-32) in several Manitoba soils, 303.

CHRISTENSEN, PENELOPE J. and COOK, F. D. The microbiology of Alberta muskeg, 171.

CLARK, J. S. Distribution constant for exchange of calcium and manganese in Wyoming bentonite, 85.

COOK, F. D. See Christensen, Penelope J., 171.

CROWN, P. H. and HOFFMAN, D. W. Relationship between water table levels and type of mottles in four Ontario Gleysols, 453.

DAIRON, P. A. See Lavkulich, L. M., 95.

DAY, J. H. See Brydon, J. E., 35.

De KIMPE, C. Chemical, physical and mineralogical properties of a Podzol soil with fragipan derived from glacial till in the province of Quebec, 317.

DEW, D. A. See Keys, C. H., 347.

DODD, J. D. and van AMBURG, G. L. Transfer to and distribution of cesium-134 in the soil of two grassland habitats, 121.

DORMAAR, J. F. Aspects of infrared spectra of humic acids in relation to methods of preparation: a reply, 89.

DUMANSKI, J., NEWTON, R. and LINDSAY, J. D. Geographic zonation in selected characteristics of surface mineral horizons in Alberta soils, 131.

EMMOND, G. S. Comparative effect of pure chemical fertilizer vs mixed fertilizer on yield and specific gravity of potatoes, 255.

FERGUSON, W. S. See Bisal, Frederick, 31, and Campbell, C. A., 151.

FINDLAY, W. I. See Bolton, E. F., 260.

FULTON, J. M. Relationship of root extension to the soil moisture level required for maximum yield of potatoes, tomatoes and corn, 92.

GASSER, J. K. R. See Spratt, E. D., 263.

GONZALEZ, ANTONIO. See Hubert, Gérard, 281.

GRAVELAND, D. N. Migration of soluble salts in an irrigated field in relation to rainfall and irrigation, 43.

GUPTA, UMESH C. and MacLEOD, L. B. Response to copper and optimum levels in wheat, barley and oats under greenhouse and field conditions, 373.

HALSTEAD, R. L. and ANDERSON, G. Chromatographic fractionation of organic phosphates from alkali, acid and aqueous acetylacetone extracts of soils, 111.

HEDLIN, R. A. See Jones, R. W., 331 and 339.

HINMAN, W. C. Effects of freezing and thawing on some chemical properties of three soils, 179.

HOFFMAN, D. W. See Crown, P. H., 453.

HORE, F. R. See Bolton, E. F., 275.

HOYT, P. B. See Nyborg, M., 87.

HUBERT, GERARD et GONZALEZ, ANTONIO. Extraction et répartition du fer et de l'aluminium liés à la matière organique dans quatre podzols du Québec, 281.

IVARSON, K. C. and SOWDEN, F. J. Effect of frost action and storage of soil at freezing temperatures on the free amino acids, free sugars and respiratory activity of soil, 191.

IVARSON, K. C., SOWDEN, F. J. and MACK, A. R. Amino-acid composition of rhizosphere as affected by soil temperature, fertility and growth stage, 183.

JONES, R. W. and HEDLIN, R. A. Ammonium, nitrite and nitrate accumulation in three Manitoba soils as influenced by added ammonium sulfate and urea, 331.

JONES, R. W. and HEDLIN, R. A. Nitrite instability in three Manitoba soils, 339.

KETCHESON, J. W. Effects of heating and insulating soil on corn growth, 379.

KEYS, C. H., ANDERSON, C. H., BOWREN, K. E. and DEW, D. A. Effect of seedbed preparation on soil aggregation, surface moisture and crop production, 347.

LAVKULICH, L. M., DAIRON, P. A. and von SPINDLER, B. Determination of carbon and sulfur in soil extracts by dry combustion using a high temperature induction furnace, 95.

LEVESQUE, M. Contribution de l'acide fulvique et des complexes fulvo-métalliques à la nutrition minérale des plantes, 385.

LI, C. Y., LU, K. C., TRAPPE, J. M. and BOLLEN, W. B. Separation of phenolic compounds in alkali hydrolysates of a forest soil by thin-layer chromatography, 458.

LINDSAY, J. D. See Dumanski, J., 131.

LOWE, L. E. See Parasher, C. D., 403.

LOWE, L. E. and TSANG, W-C. Distribution of a green humic acid component in forest humus layers of British Columbia, 456.

LU, K. C. See Li, C. Y., 458.

MACK, A. R. See Ivarson, K. C., 183.

MacLEOD, L. B. See Gupta, Umesh C., 373.

MASSEY, D. LAWRENCE and SHEARD, R. W. Utilization of surface-applied phosphorus by established stands of alfalfa and bromegrass, 9.

MASSEY, D. LAWRENCE, SHEARD, R. W. and MILLER, M. H. Availability of reaction products of fertilizer phosphorus to alfalfa and bromegrass seedlings, 141.

McKEAGUE, J. A. and BRYDON, J. E. Mineralogical properties of ten reddish brown soils from the Atlantic provinces in relation to parent materials and pedogenesis, 47.

McLAREN, A. DOUGLAS. Temporal and vectorial reactions of nitrogen in soil: a review, 97.

MILLER, M. H. See Massey, D. Lawrence, 141.

MUNN, D. M. See Stevenson, D. S., 461.

NEWTON, R. See Dumanski, J., 131.

NUTTALL, W. F. Effect of organic amendments on some physical properties of Luvisolic soils in relation to emergence of rapeseed in a growth chamber, 397.

NYBORG, M. and HOYT, P. B. Boron deficiency in turnip rape grown on Gray Wooded soils, 87.

OMANWAR, P. K. and ROBERTSON, J. A. Movement of phosphorus to barley roots growing in soil, 57.

OUELLETTE, G. J. See Cheng, B. T., 163.

PARASHER, C. D. and LOWE, L. E. Isolation of clay-size organo-mineral complexes from soils of the Lower Fraser Valley, 403.

RACZ, G. J. See Cho, C. M., 303, and Webber, M. D., 243.

RAPP, E. See van Schaik, J. C., 361.

ROBERTSON, J. A. See Omanwar, P. K., 57.

ROSTAD, H. P. W. and St. ARNAUD, R. J. Nature of carbonate minerals in two Saskatchewan soils, 65.

ROUSE, WAYNE R. Effects of soil water movement on actual evapotranspiration estimated from the soil moisture budget, 409.

RUTHERFORD, G. K. and SULLIVAN, D. K. Properties and geomorphic relationships of soils developed on a quartzite ridge near Kingston, Ontario, 419.

SCHNITZER, M. Characteristics of organic matter extracted from Podzol B horizons, 199.

SHAYKEWICH, C. F. Hydraulic properties of disturbed and undisturbed soils, 431.

SHAYKEWICH, C. F. and WARKENTIN, B. P. Effect of clay content and aggregate size on availability of soil water to tomato plants, 205.

SHEARD, R. W. See Massey, D. Lawrence, 9 and 141.

SINGH, S. SHAH and BRYDON, J. E. Activity of aluminum hydroxy sulfate and the stability of hydroxy aluminum interlayers in montmorillonite, 219.

SLY, W. K. A climatic moisture index for land and soil classification in Canada, 291.

SMITH, D. W. Concentrations of soil nutrients before and after fire, 17.

SOWDEN, F. J. See Ivarson, K. C., 183 and 191.

SOWDEN, F. J. Action of proteolytic enzymes on soil organic matter, 233.

SOWDEN, F. J. Extraction of nitrogen-containing organic matter fractions from a Brown Forest soil, 227.

SPRATT, E. D. and GASSER, J. K. R. Effect of ammonium and nitrate forms of nitrogen and restricted water supply on growth and nitrogen uptake of wheat, 263.

St. ARNAUD, R. J. See Rostad, H. P. W., 65.

STEVENSON, D. S. Soil volume and fertilizer effects on growth and nutrient contents of sunflower plants, 353.

STEVENSON, D. S. and MUNN, D. M. A simple automatic waterer for growth room or greenhouse, 461.

STRONG, J. See Cho, C. M., 303.

SULLIVAN, D. K. See Rutherford, G. K., 419.

TOOGOOD, J. A. See Cameron, D. R., 1.

TOPP, G. C. Soil water content from gamma ray attenuation: a comparison of ionization chamber and scintillation detectors, 439.

TRAPPE, J. M. See Li, C. Y., 458.

TSANG, W-C. See Lowe, L. E., 456.

VALENTINE, K. W. G. Ground infrared photography to distinguish vegetation and terrain characteristics, 465.

VALENTINE, K. W. G. Use of land classification concepts as a basis for a reconnaissance soil survey in northeastern British Columbia, 71.

van AMBURG, G. L. See Dodd, J. D., 121.

van SCHAIK, J. C. Soil hydraulic properties determined with water and with a hydrocarbon liquid, 79.

van SCHAIK, J. C. and RAPP, E. Water table behavior and soil moisture content during the winter, 361.

von SPINDLER, B. See Lavkulich, L. M., 95.
VREDENBURG, R. T. and WILLIS, W. O. Effects of snow on soil water measurement by neutron moderation, 463.
WARDER, F. G. See Campbell, C. A., 151 and 257.
WARKENTIN, B. P. See Shaykewich, C. F., 205.
WEBBER, M. D. and RACZ, G. J. Soluble complexes in the systems dicalcium phosphate dihydrate or dimagnesium phosphate trihydrate equilibrated with aqueous salt solutions, 243.
WILLIS, W. O. See Vredenburg, R. T., 463.